

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 April 2005 (14.04.2005)

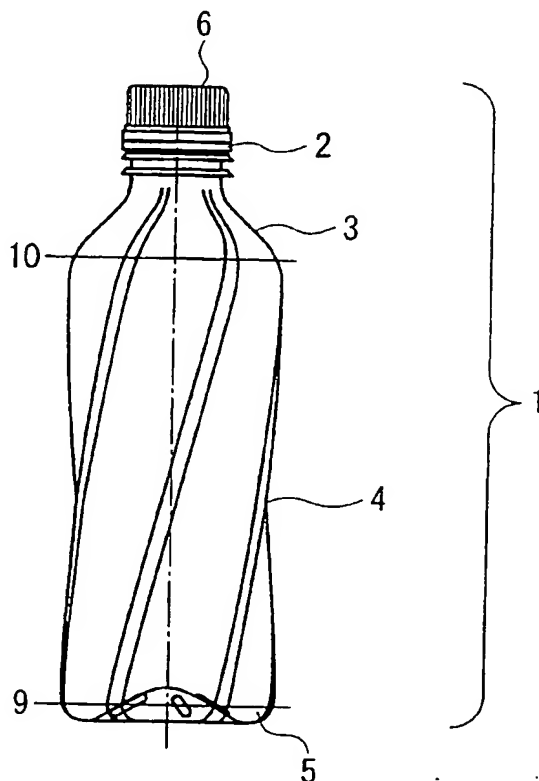
PCT

(10) International Publication Number  
**WO 2005/032958 A1**

- (51) International Patent Classification<sup>7</sup>: B29C 49/00 B65D 1/02, (72) Inventors; and (75) Inventors/Applicants (for US only): IWASHITA, Hiro-masa [JP/JP]; c/o Coca-Cola (Japan) Company, Limited, 6-3, Shibuya 4-chome, Shibuya-ku, Tokyo 150-0002 (JP). AOYAGI, Osamu [JP/JP]; c/o Coca-Cola (Japan) Company, Limited, 6-3, Shibuya 4-chome, Shibuya-ku, Tokyo 150-0002 (JP). MATSUOKA, Kenshi [JP/JP]; c/o Coca-Cola (Japan) Company, Limited, 6-3, Shibuya 4-chome, Shibuya-ku, Tokyo 150-0002 (JP).
- (21) International Application Number: PCT/JP2004/014813
- (22) International Filing Date: 30 September 2004 (30.09.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 2003-343481 1 October 2003 (01.10.2003) JP
- (74) Agents: ODAJIMA, Heikichi et al.; Odajima Patent Office, Nippon Jitensha Building, 9-15, Akasaka 1-chome, Minato-ku, Tokyo 107-0052 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
- (71) Applicant (for all designated States except US): THE COCA-COLA COMPANY [US/US]; One Coca-Cola Plaza, NW, Atlanta, GA 30313 (US).

[Continued on next page]

(54) Title: PLASTIC BOTTLES



(57) Abstract: Plastic bottles (1) which are characterized in that: they are composed of neck (2), shoulder (3), body (4) and bottom (5); the cross-sectional shape at the body (3) is a regular polygon, the number of angles of which is an even number of not less than 4 nor more than 32; each angle of the polygon is rounded off by an arc (8) whose radius is not longer than half the radius of a circle circumscribed about the cross-sectional shape at body (3); cross-sectional shapes have the same shape at any portion of body (3); circles circumscribed about the cross-sectional shapes are identical with one another; the circumscribed circles have a center on the vertical central axis of body (3); and the cross-sectional shape of body (3) rotates around said central axis in proportion to height along said central axis.

WO 2005/032958 A1



MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.